VPON

Network DVR System

Your best choice for digital video recording and remote surveillance

VP- 3110 & 3111 & 3111W

Video Server

User Manual

Preface

Notice

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.
Note: Formosa21 will not be obligated to the responsibility outside the scope of VPON DVR.

Trademarks

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Microsoft, Windows, Internet Explorer ® are registered trademarks of Microsoft Corporation. Netscape, Navigator, Communicator ® are registered trademarks of Netscape Corporation. Other brand and product names referred to in this manual are trademarks or registered trademarks of their respective holders.
Trademarked names are used throughout this manual. Rather than place a symbol at each occurrence, trademarked names are designated with initial capitalization. Inclusion or exclusion is not a judgment on the validity or legal status of the term.

Warning

To reduce risk of electric shock, do not remove cover. No user service-able parts inside. Refer servicing to qualified service personnel.
Do not expose this appliance to rain or moisture.
Do not install this product in hazardous areas where highly combustible or explosive products are stored or used.
Severe impact or vibration may cause malfunction.
Do not move this product when VPON is working.
Position it in an open space with flat surface, and also maintain at least 15 cm between the left and right sides of the body and the wall.
The lightning flash/arrowhead symbol, within and equilateral triangle, alerts the user to the presence of a shock hazard within the product's enclosure.

CE Warning

This is a Class A product, in a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

GUARANTEE

Every care has been taken in the preparation of this manual; if you detect any inaccuracies or omissions, please inform FORMOSA21, INC. in Taiwan or your local distributor. FORMOSA21 cannot held responsible for any technical or typographical errors and reserves the right to make changes to the products and manuals without your prior notice. FORMOSA21 makes no warranty of any kind with regard to the material contained within this document, including, but not limited, the implied warranties of merchantability and fitness for a particular purpose. FORMOSA21 shall not be liable nor responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material.

Important information

Before proceeding, please read and observe all instructions and warnings contained in this manual. Retain this manual with the original bill of sale for future reference and, if necessary, warranty service.
When unpacking your VPON unit, check for missing or damaged items. If any item is missing, or if damage is evident, **DO NOT INSTALL OR OPERATE THIS PRODUCT.** Contact your dealer or us for assistance.

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1. PRODUCT OVERVIEW

VPON Video server is stand-alone video/audio streaming servers designed for professional IP surveillance applications. With embedded web viewer, streaming video/audio over network can be accessed like browsing a website. The video server products are all equipped with the proprietary Config service port, making it the only digital surveillance product in the market with proprietary design for "**Ease-of-use**", "**Reliability**", and "**Manageability**".

PACKAGE &CONTENTS

VP-3110 video server

VP-3111 video server

VP-3111W (video server with wireless)

- Video server unit X 1
- Power adapter X 1
- USB cable X 1
- Terminal block connector X 1
- Wall mount Frame + screws (VP-3111 only)
- Antenna (VP-3111W only)
- Product CD X 1

2. SOFTWARE CD

Software CD in the package contains the following:

- ✓ Free bundle 32CH SecuWatch CMS IP surveillance management software
- ✓ VP-3110 & 3111 Video Server User Manuals
- ✓ SecuWatch CMS Software User Manual

3. BEFORE YOU INSTALL SOFTWARE

- ✓ PC running Microsoft Windows 2000 or above is only capable of running SecuWatch software.
- ✓ PLEASE go through SecuWatch User Manual before installation to check further PC requirements in order to ensure smooth software operation.
- ✓

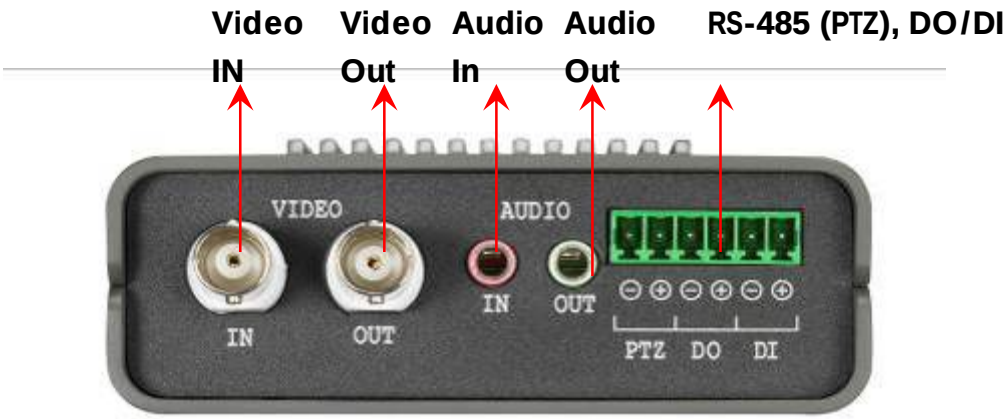
4. LANGUAGE SUPPORT

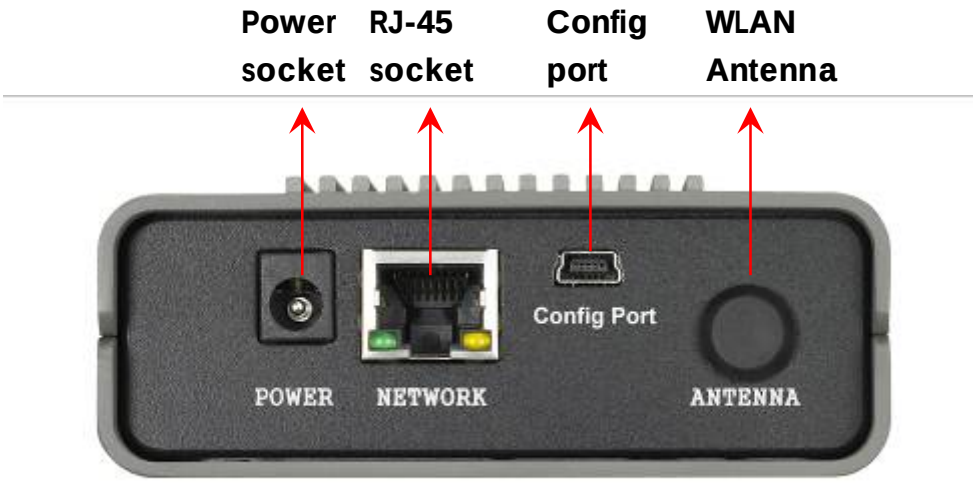
ENGLISH only

5. HOUSING and CONNECTORS

VP-3110 Video Server

VP-3111 Video Server





6. FIRST TIME USE INSTRUCTIONS (*read carefully)*

INSTALL CMS Software

Install **SecuWatch** software.

WHICH BROWSER TO USE?

We strongly recommend Microsoft IE browser version 6 or higher. Mozilla Firefox and similar others are not guaranteed to work with all video servers.

POWER ON VIDEO SERVER

Power on video server by using power adapter provided in the product package. Connect power adapter to 110-220v AC socket.

CONNECTING TO NETWORK

Connect a standard CAT5 ethernet cable to R45 socket on video servers and connect other end to your network hub/switch. Make sure the PC you want to access video servers is on the same network domain.

FACTORY SETTING - INITIAL IP ADDRESS

IP Address: 192.168.1.2
Gateway: 192.168.1.1

NETWORK DOMAIN

Change the IP of the PC you want to access video servers inline with 192.168.1.2.

7. ACCESS VIDEO SERVER

BROWSER

- Open IE browser
- Type IP address of video server that can be pre-define via config port.

  default IP is 192.168.1.2
- Initial username and password are…

  Login: **root**

  Password: **pass**

  Click **Login** button to go to web view.

After successful login with root/pass, you will briefly see a screen as below.

INITIAL USERNAME & PASSWORD

Administrator

- Default ID/Password = **root / pass**.
- Only password is changeable.
- Full access right to view, control system settings.

Guest accounts

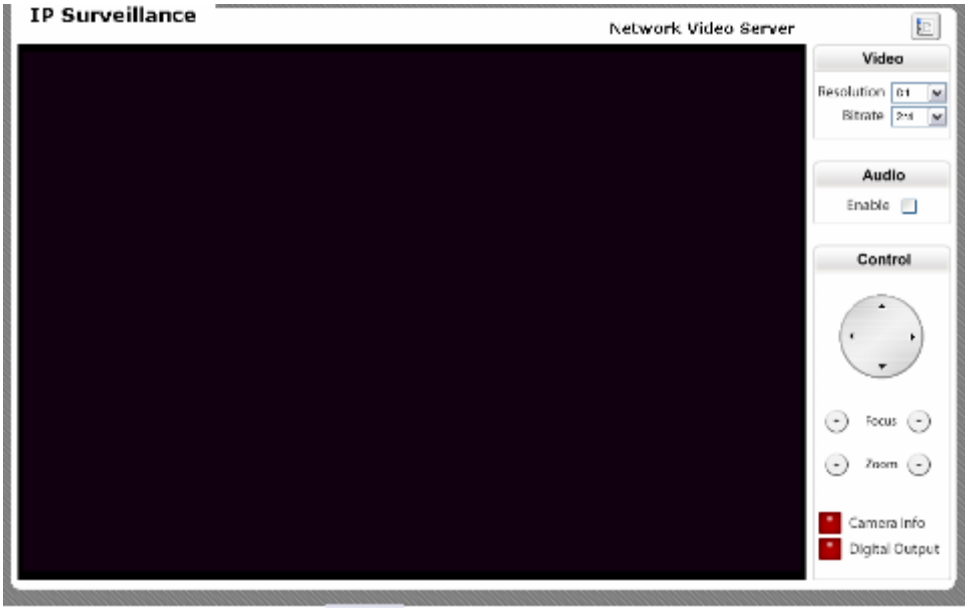
- ID/Password not necessary.
- Basic view and some action buttons can work.

VIEWING PAGE

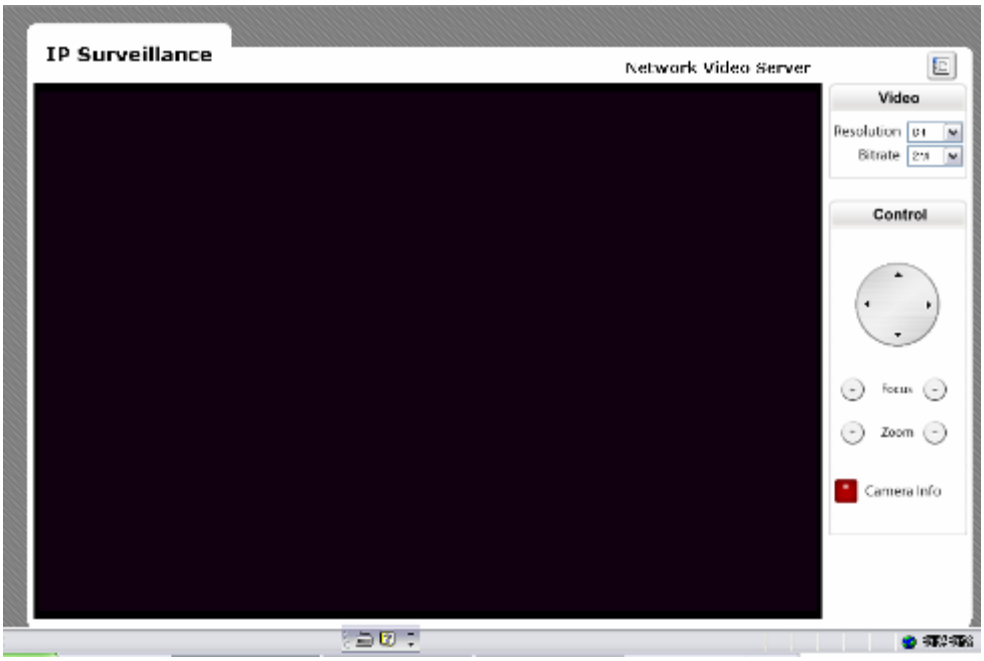
After successful log in as **Guest**, the viewing page will appear as follows. The "**camera info**" button when clicked shows FPS, camera name and resolution values. This applies to both video servers

When you log in successfully with ROOT/PASS as **administrator**, the viewer screen will display as shown below.

VP-3111 video server



VP-3110 video server



1. Notice top right corner of viewing page has a toggle button to take you between web configuration page & viewing page. Always click that if you want to move from one page to the other.

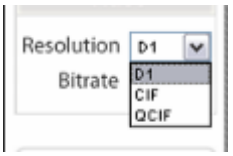
2. Several controls options are available on the right side.
3. OSD is displayed on top left corner of the screen (time, date, camera name)

CONTROL PANEL SETTINGS

- Video/Resolution

  Following table describes resolution values for each video format

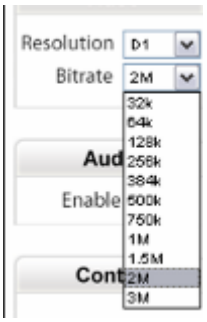
Resolution	CIF	QCIF	D1
NTSC	352X240	704X480	720X480
PAL	352X288	704X576	720X576



- Video \ Bit rates

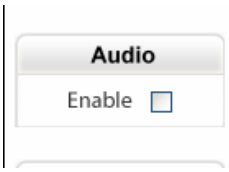
  Choose a particular value and it is applied within few seconds. Video on the screen will pause briefly.

  32K/64K/128K/256K/384K/500K/750K/1M/1.5M/2M/3M (bps)



- Audio \ Enable check box (VP-3111 ONLY)

  Enable or disable function for audio will result in video flicker for a second and then return back to normal. This is not an error.

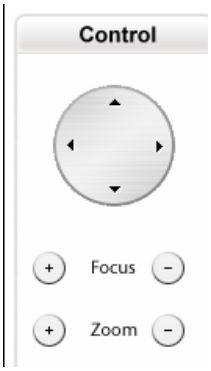


- P/T/Z controls (will need PTZ controller)

  Z (Zoom): zoom in (+) / zoom out (-).

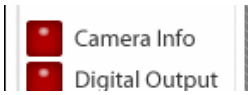
  Pan/Tilt.

  F (Focus): focus in (+) / focus out (-).



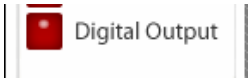
➢ Camera Information.

Shows video information of the transferred data on the upper left corner of the video screen such as frame rate (fps), channel name, resolution.



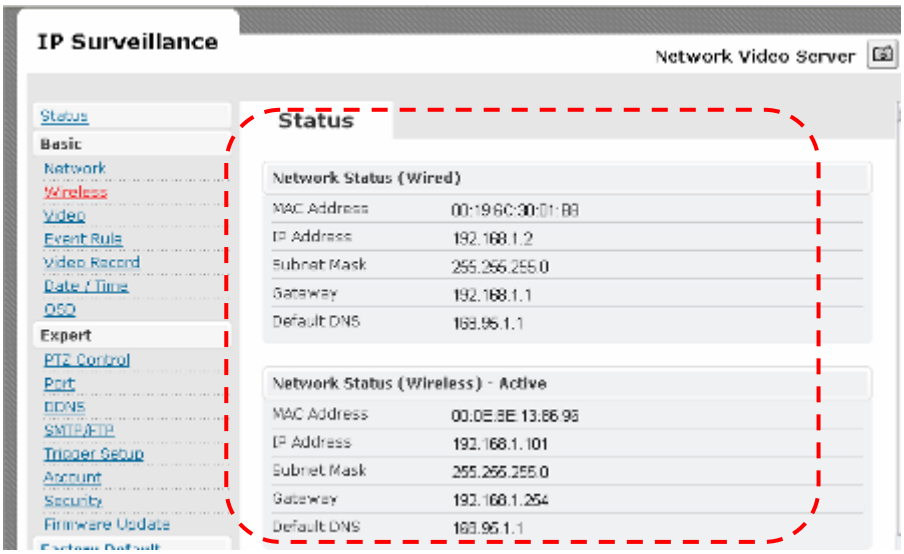
➢ Digital Output (VP-3111 ONLY)

✓ When enabled, DO provide contact close and acts purely as a switch.



8. WEB INTERFACE SETTINGS

Video Servers built-in web interface offers more advanced settings. On the main viewing page, click on (top-right) , to enter server settings page. It is a toggle button to switch between Config and view pages.

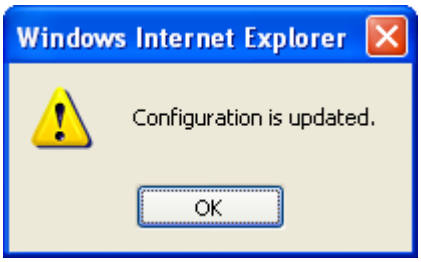


STATUS

- Initial view of web Config interface is status page.
- Hardware & Firmware information along with network status such as current IP and related details are clearly shown.

NOTE

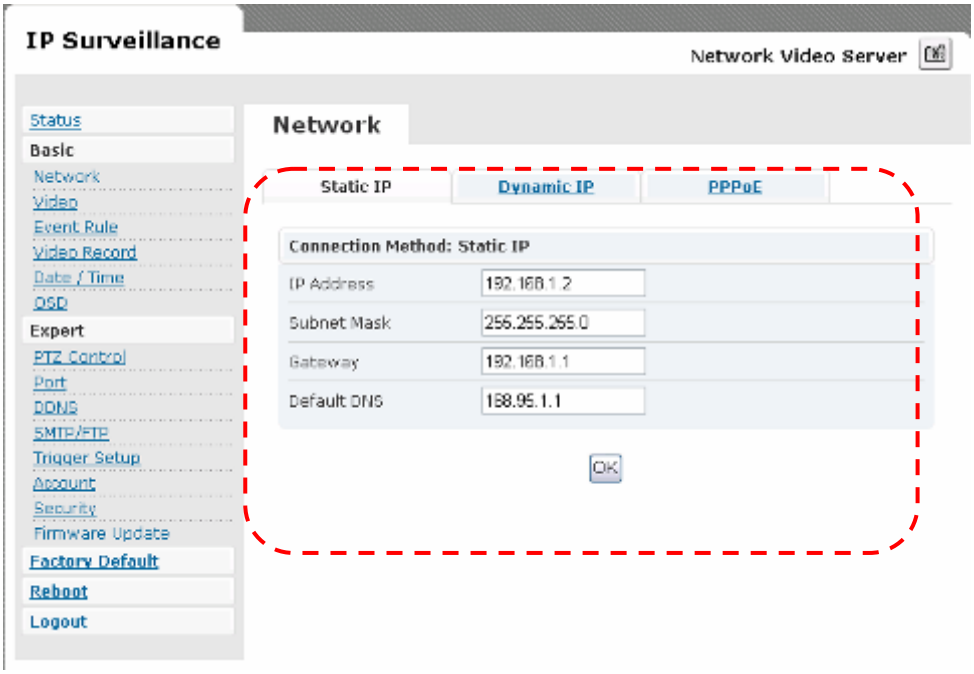
Remember to press "**OK**" after you have changed settings in a particular settings page which has "**OK**" button. After few seconds, you can see a confirmation dialog box informing that settings have been updated. Pressing **OK** will return to the same page.



NETWORK

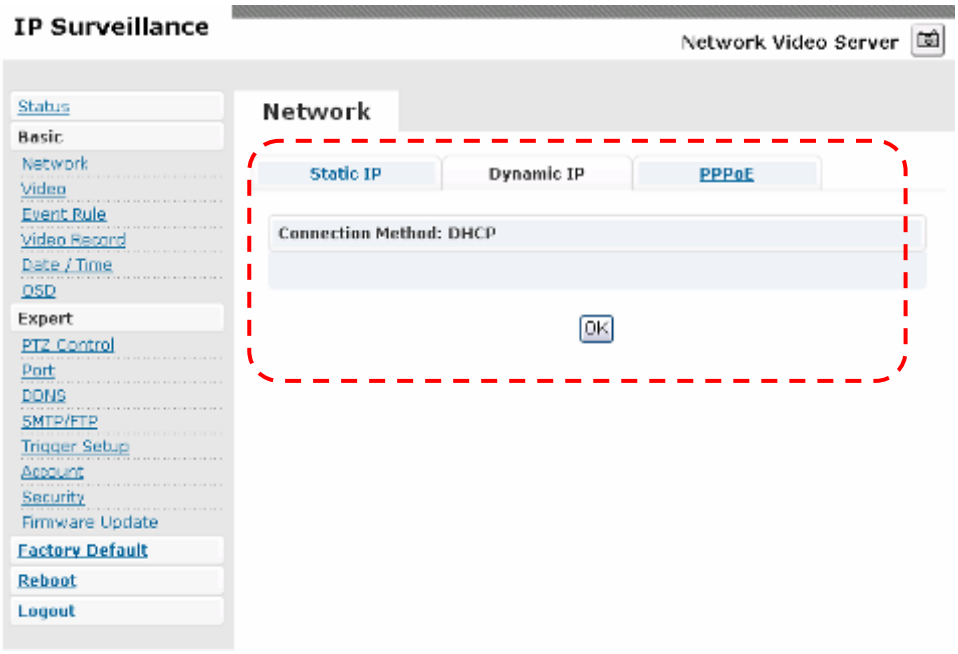
Three configuration types are available for wired network connection STATIC, DYNAMIC & PPPoE.

STATIC IP



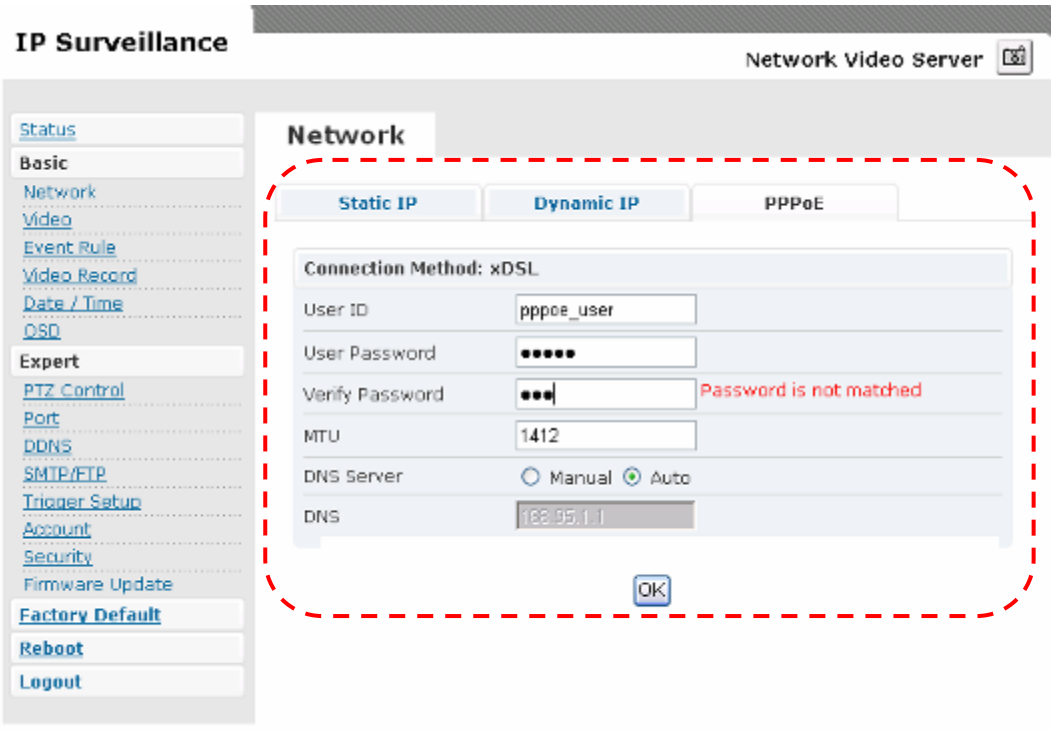
- IP Address
  - Confirm with network administrator.
- Subnet Mask/Gateway/Default DNS
  - Confirm with network administrator.
- Always click "**OK**" to save changes in a particular page.
- Reboot is required and will be automatically triggered after you press "**OK**". Wait for count down timer to finish and page will refresh automatically and you should see initial login page.

DYNAMIC IP



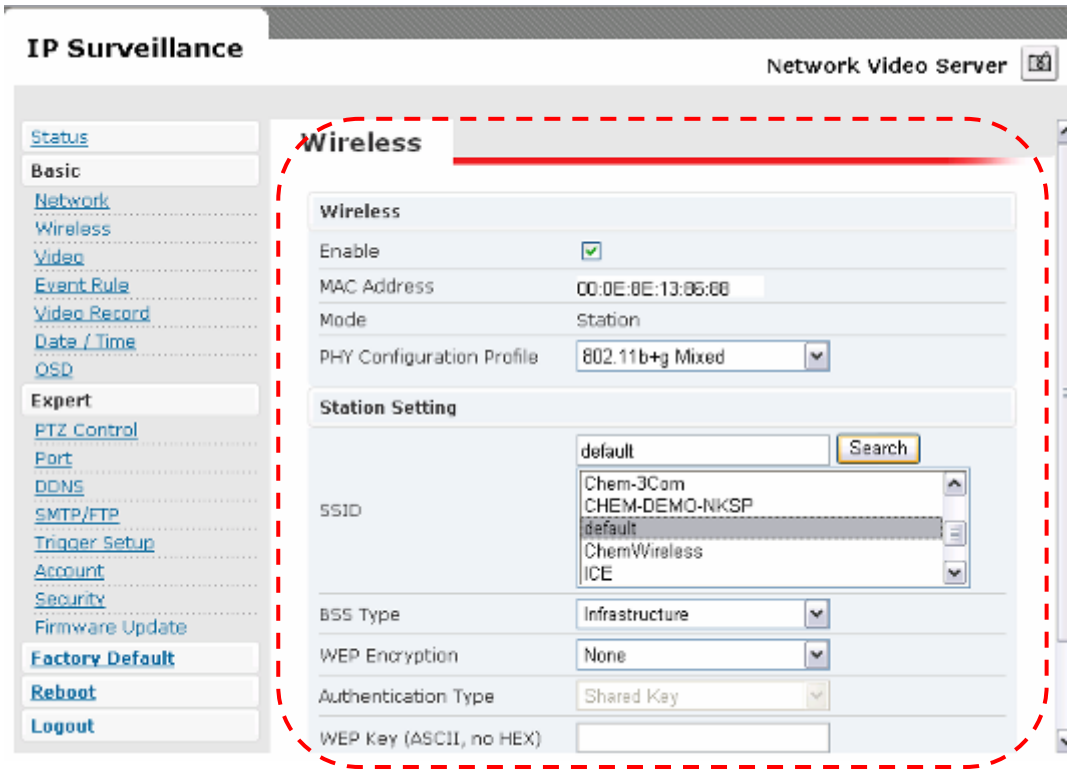
- If DHCP server is on LAN and you want to allocate Dynamic IP address, use DHCP.
- Click "**OK**" button.
- Reboot is required and will be automatically triggered after you press "**OK**". Wait for count down timer to finish and page will refresh automatically and you should see initial login page.

PPPoE SETTINGS



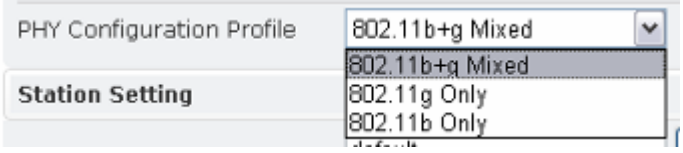
- PPPoE is used in case network supports PPPoE like xDSL
- Request Internet Service Provider for PPPoE ID/Password
- User ID / Password
  - PPPoE user ID / Password
- Service Name
  - Service name of ISP
- MTU
  - Maximum transmission unit of data
- IP address of DNS sever can be set to be created automatically.
- If xDSL does not use static IP, you should use DHCP.

Wireless (**ONLY** Wireless model)



Wireless SETTINGS

- Enable
  - Click this check box to enable/disable wireless function
- MAC Address
  - MAC Address of wireless NIC is displayed here
- Mode
  - Wireless video server only supports "Station mode" now
- PHY Configuration Profile

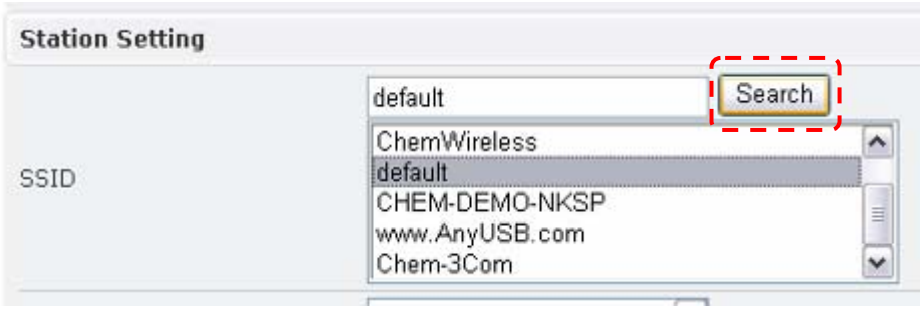


  - Wireless video server support "802.11b only"、 "802.11g only" and

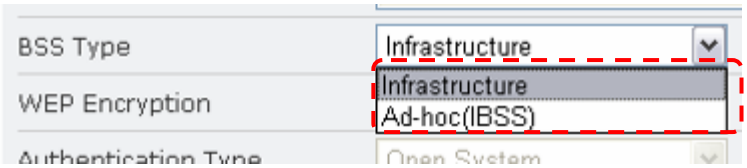
"802.11B+g only" three profile. Select correct item based on your Wi-Fi network type; if you are not sure, suggest to select "802.11B+g only" or contact your administrator

Station SETTINGS

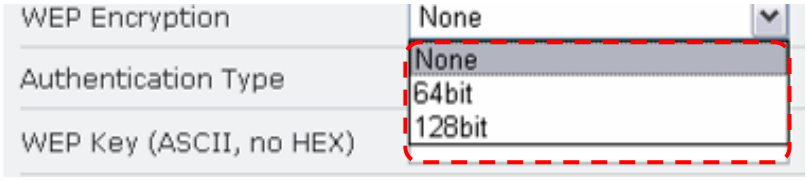
- SSID
  - Click "Search" bottom, after 8~12 sec, system will search available access point signals and list on the box below



  - Select the SSID of access point you want to link
- BSS Type



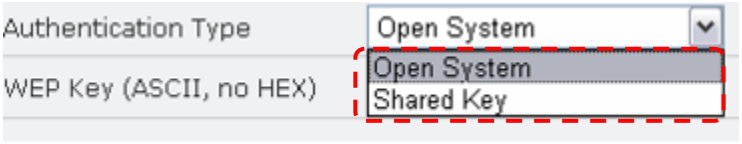
  - Wireless video server supports BSS type "Infrastructure" & "Ad-hoc" mode; you can base on your wireless network environment to select specific item
- WEP Encryption



  - If your access point need Wi-Fi WEP encryption for wireless association,

select 64bit or 128bit encryption. Otherwise, select none

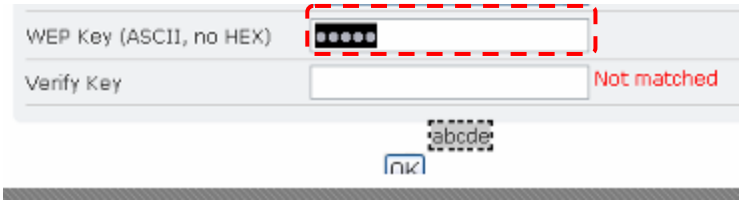
- Authentication Type



  - When selecting WEP encryption as 64bit or 128bit, please assign Wi-Fi authentication type as "Open System" or "Shared Key"

    ***If you are not sure your Wi-Fi network encryption type in detail, please contact with your network administrator*

- WEP Key



  - Input WEP key

    Wireless video server WEP Key* ***only support ASCII input, no HEX

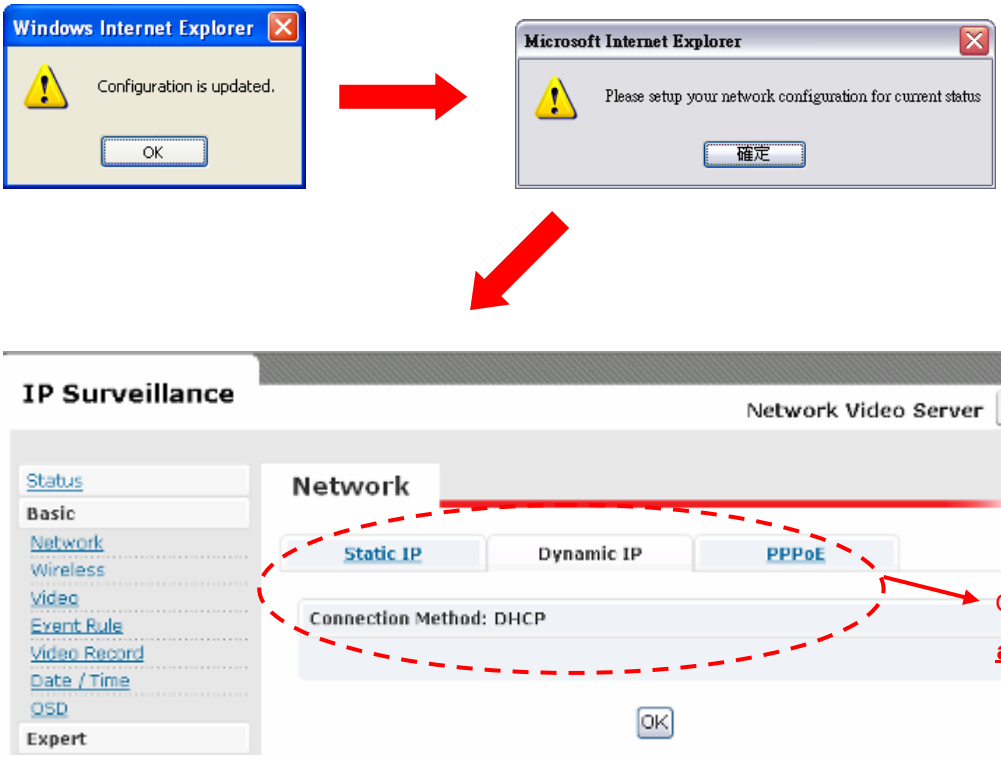
    ***When you input ASCII, you can find a dynamic text block below; you can use this to check whether or not your input is correct*

- Verify Key

  - Input WEP Key again, and make sure system response "Matched" for correct WEP Key double input

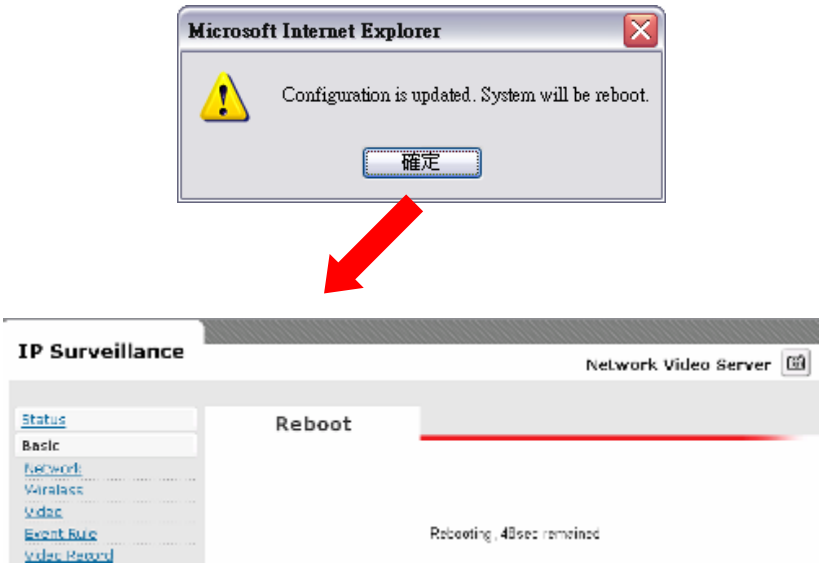
NOTE

*Remember to press "**OK**" after you have changed wireless settings. System will guide you to go to setup WLAN IP address as following*



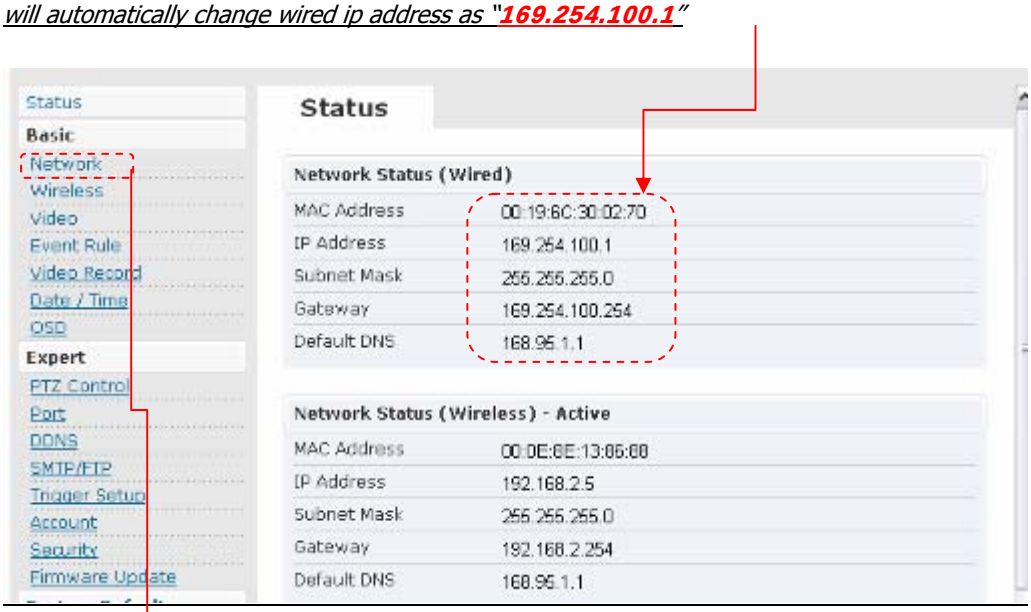
Select correct ***wireless*** IP address setting based on your AP router define; then click OK.

After setting, system will drive you to reboot process as following



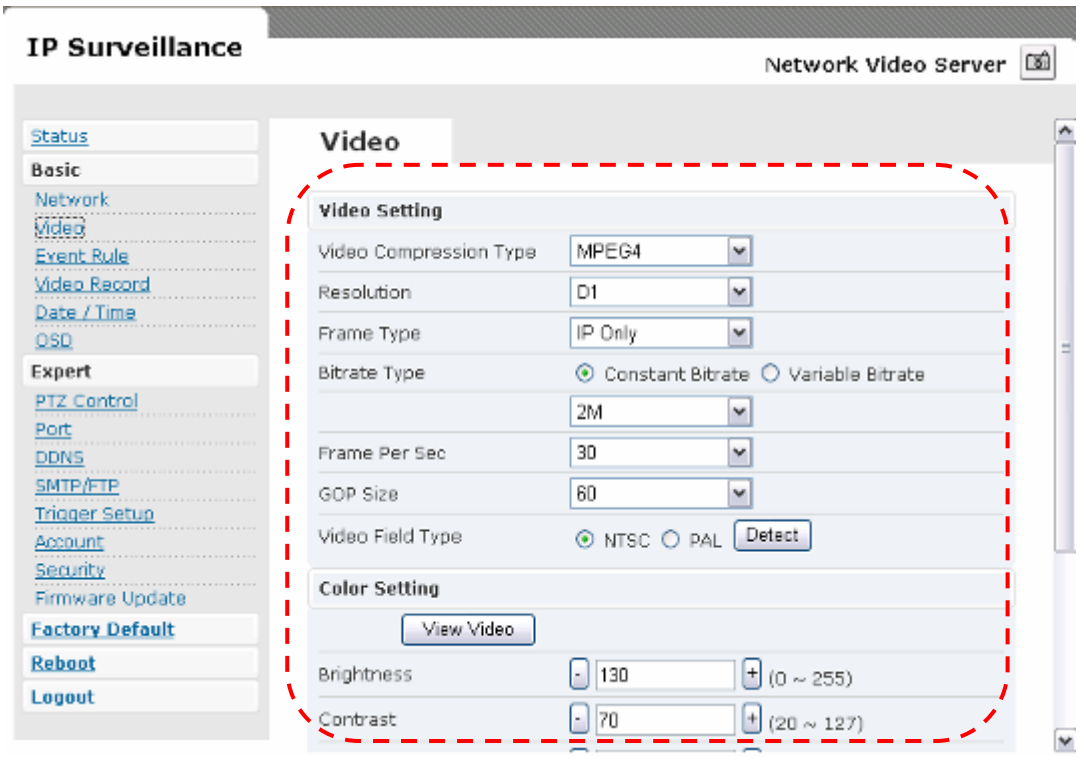
NOTE

*When WLAN successfully enabled and get ip address from AP router, wireless video server system will automatically change wired ip address as "**169.254.100.1**"*



*The "**Network**" setting page refers to WLAN setting when WLAN is enabled; otherwise, it refers to wired setting when WLAN is disabled.*

VIDEO



VIDEO SETTINGS

- Video Compression Type
  - MJEPG / MPEG4
- Resolution
  - CIF /QCIF / D1
- Frame Types

  This setting deals with the Group of Pictures (GOP) structure - which could be a combination of I and P frames.

  I - I frames - also referred to as Key frames contain information for a complete picture, and can be decoded independent of any other frame. I frames are the largest (and least compressed) frames. Therefore for same quality, they consume high bit rate.

P - P frames are encoded using information from the previous I or P frame, and can only be decoded correctly if the previous I / P frame is available. P frames are smaller than I frames.

- I Only / IP Only
- IP - Simple Profile - Medium bit rates for same quality.

  I - Highest bit rates for same quality.

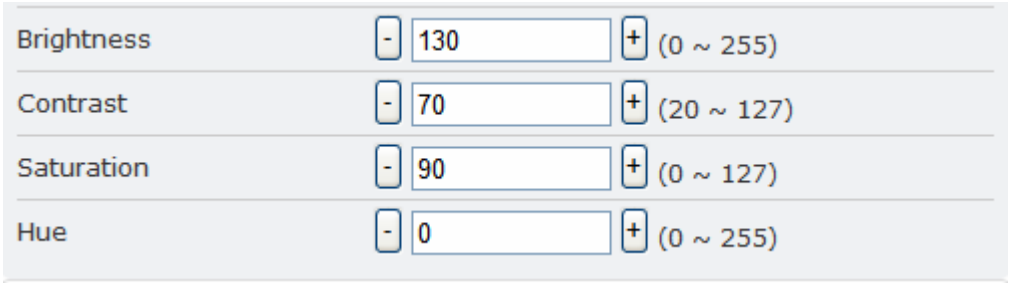
  ***When choosing MJEPG streaming, ONLY support "I Only" mode*

- Bit rate Type
  - Constant and Variable bit rates control allows flexibility in choosing how much bandwidth is available on network and quality of video required.
- Constant Bit rates
  - 3M / 2M / 1.5M / 1M / 750K / 500K / 384K / 256K / 128K / 64K / 32K
- Variable Bit rates
  - 2 ~ 31 (quality is best in case value is "**3**")
- Frame per Second.
  - 1 ~ 30
- Group Size
  - Adjusts the ration between "I" frames and "P" frames. Lower the group size, better the quality.
  - 5 / 10/ 15 / 30 / 60
- Video Type
  - NTSC / PAL

***System can automatically detect input video signal when clicking detect icon*

COLOR SETTINGS

Fine adjustments to video quality can be made using more detailed settings as shown below.



BRIGHTNESS

Adjusts the image on a scale from darkness to brightness.

CONTRAST

Adjusts the extent to which adjacent areas on a video differ in brightness

SATURATION

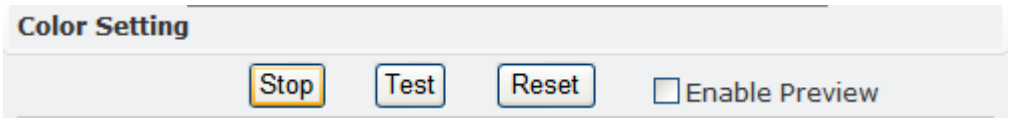
Adjusts the chromatic purity of video thereby effecting vividness.

HUE

Adjusts the video by effecting color depth

VIDEO PREVIEW

Preview makes choices easier when tuning video settings for specific locations. By clicking the **View Video** button, you can see the following



Click **Stop** to exit preview. You could change other video parameters and press **TEST** to see how the changes look like. You can press **Reset** anytime to return back to the default settings. Click **Enable Preview** checkbox to save the current settings – and its takes effect right after settings have been changed.

MAX CLIENT LIMIT

Maximum users (client) limit allows users accessing the video stream. For higher bit rates and resolution, the client limit is much lower and vice versa.

- Maximum number of clients can be restricted depending on how much video quality is required and network band with is available.
  - 0 ~ 10 (value 0 means maximum allowable)

DO NOT FORGET TO PRESS "OK" BUTTON TO SAVE YOUR SETTINGS.

EVENT RULE

Basically, VP-3111 models capable of handling all standard events. VP-3110 model having limited input sockets (only PTZ), only handles motion detection and periodic timer.

Events handled by VP-3110 Model

1. Motion Detection
2. Periodic Timer

Actions supported by VP-3110 model

1. PTZ Preset
2. E-mail Notification

	Digital Output	PTZ Preset	E-mail notification
Digital input			
Motion Detection		X	X
Periodic Timer		X	X

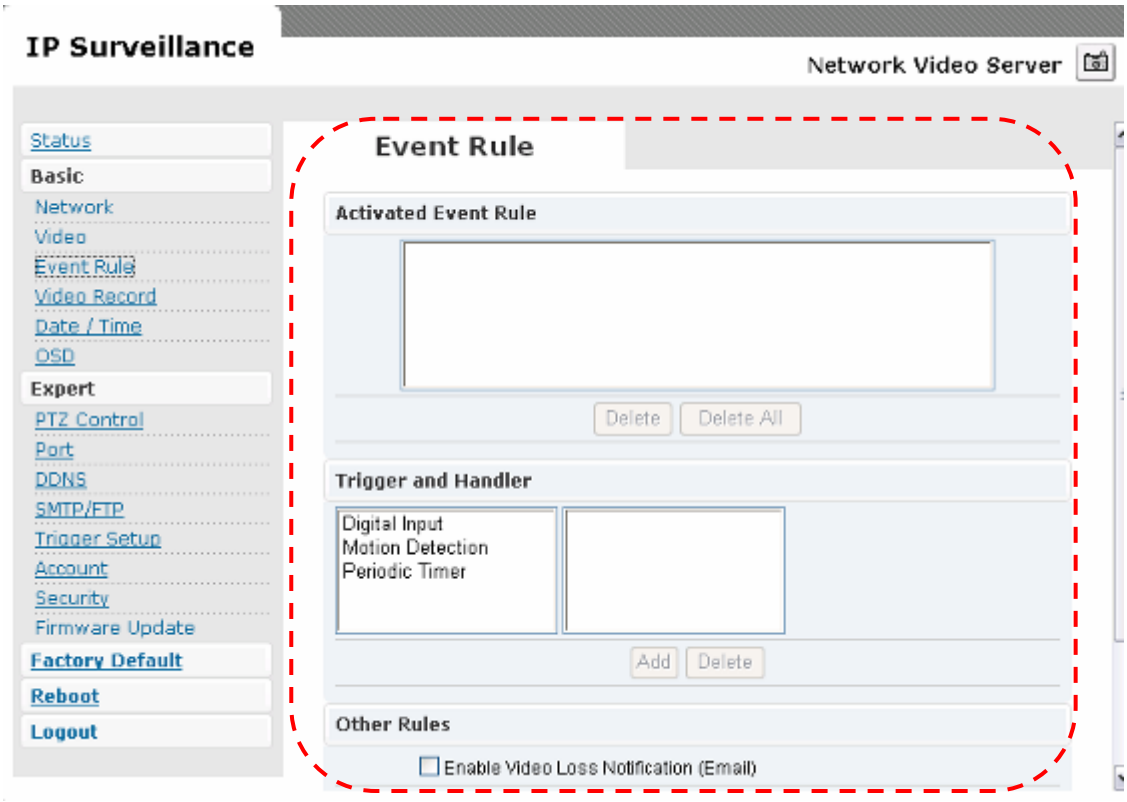
Events handled by VP-3111 Model

1. Digital IN
2. Motion Detection
3. Periodic Timer

Actions supported by VP-3111 Model

1. Digital Output
2. PTZ Preset
3. E-mail Notification

	Digital Output	PTZ Preset	E-mail notification
Digital input	X	X	X
Motion Detection	X	X	X
Periodic Timer	X	X	X



EVENTS HANDLED

Motion Detection

If motion is detected on the areas defined on the video stream, an event will be triggered based on the rule lists.

Periodic Timer

In a pre-defined time interval, an event will be triggered based on the rule lists.

ACTIONS TRIGGERED

PTZ Preset

PTZ set to a particular preset value can be triggered based on occurrence of an event listed out in "***Rule Lists***".

E-mail Notification

E-mail can be sent based on occurrence of an event listed out in "***Rule Lists***".

RULE LISTS - ADDING/DELETING

Select an event and select corresponding action. Click **add** button and notice that is added in the **Rule lists** Information box.

MODIFYING RULE LISTS

Rule list items can be deleted individually or wholly by clicking **Delete All** button.

VIDEO RECORD

Choose **Enable** checkbox to record video/snapshot during a Motion detection or Digital IN event.

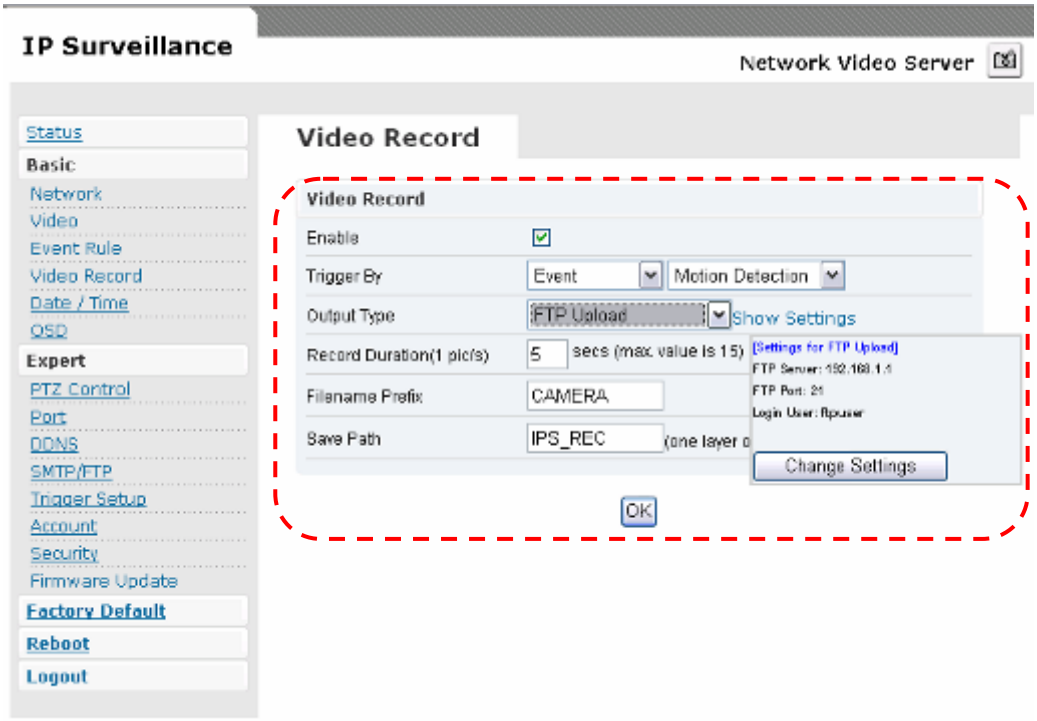
Choose between two kinds of events – Motion detection / Digital IN

Default option of output is FTP upload

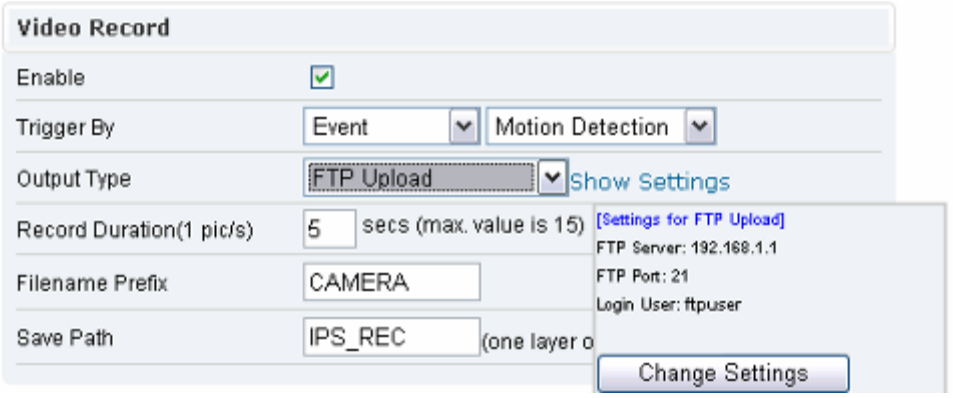
Video file size - max... 15 seconds duration

File name prefix – user defined

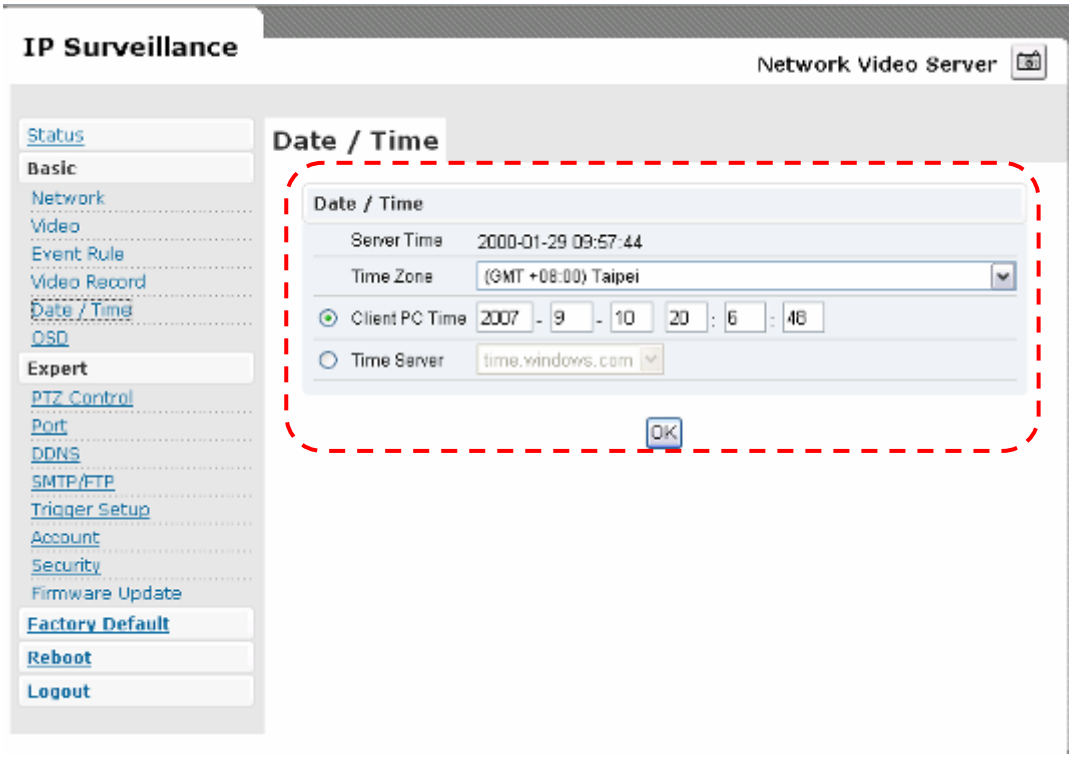
You can also define the folder name (path).



Scheduled recording can also be done by defining the time and day.



DATE & TIME



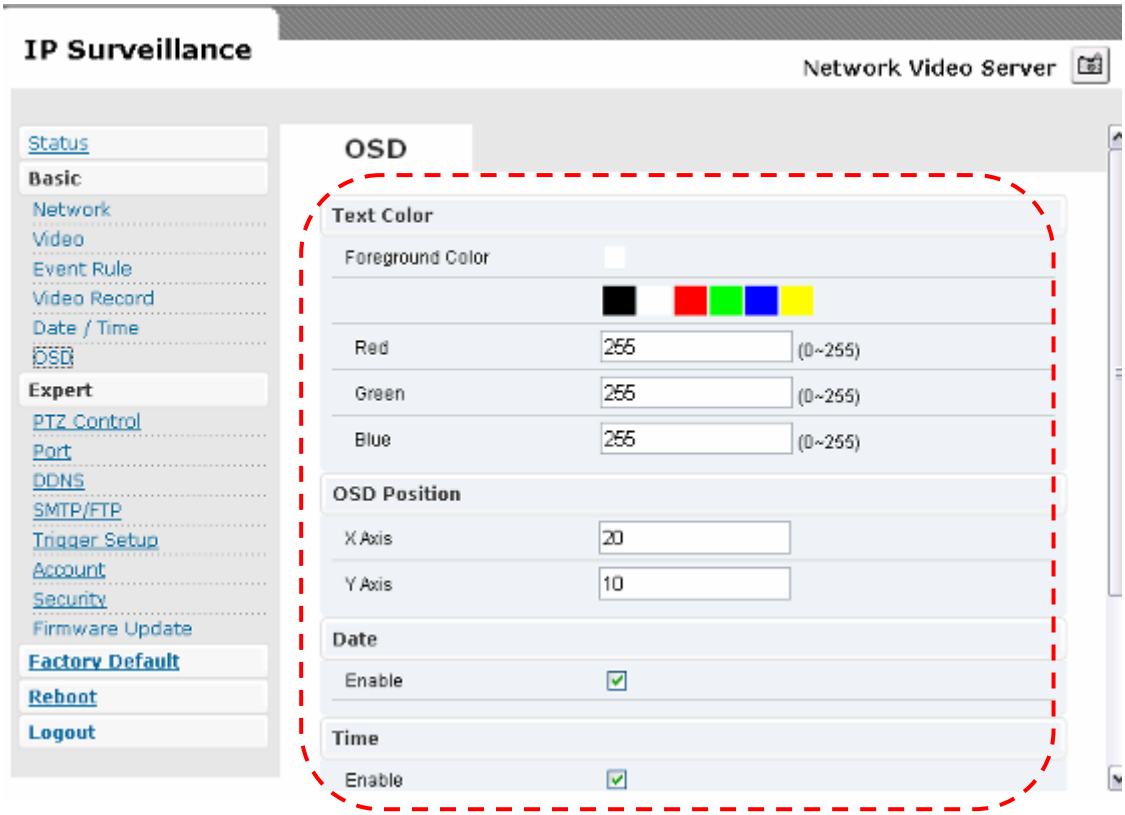
- Date and time settings can be synchronized with PC directly by clicking "Client PC time" check box. Click "**OK**" after you have made selection.

- Time zone can be chosen by choosing either of the two time servers listed
- Either of the two time servers can be chosen to synchronize video server time. They are listed as follows should you choose **Time Server.** Click "**OK**" after you have changed settings.

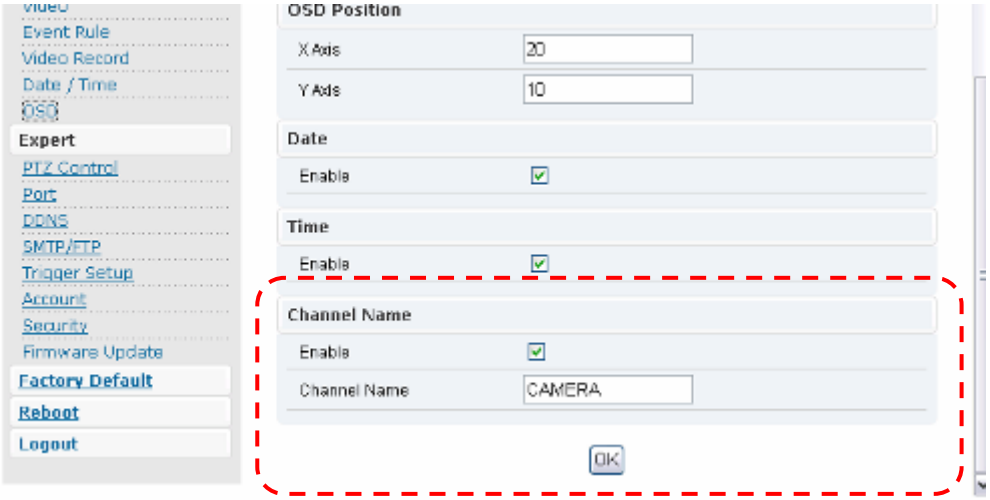
- If you want to manually input time server, choose "**Other**" then you can find a manual input edit box appear. Key in your preferred time server and click "**OK**".

OSD

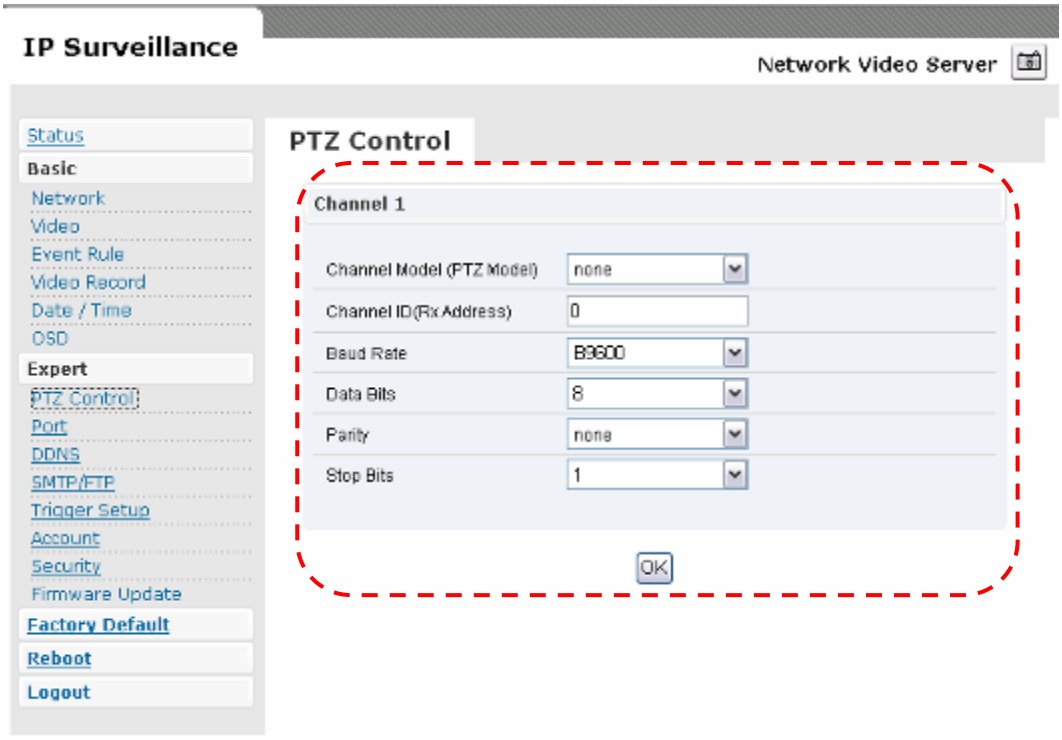
Click on your desired choice of color. Values will change accordingly for R, G, and B. If you desire some other color, you can manually define those corresponding R, G, B values in the boxes as appropriate. Position of OSD can be changed by defining the X, Y values. Date & Time can be individually enabled/disable by "Date" & "Time" checkboxes.



Channel name can be shown/hidden by the channel name "**Enable**" checkbox. It can be manually typed in the "**Channel name**" text box and changes can be noticed.



PTZ CONTROL



- Channel Mode (PTZ model)
  - Default is none.
  - PelcoP/PelcoD/Merit-Lilin/Transparent can be chosen.
- Channel ID

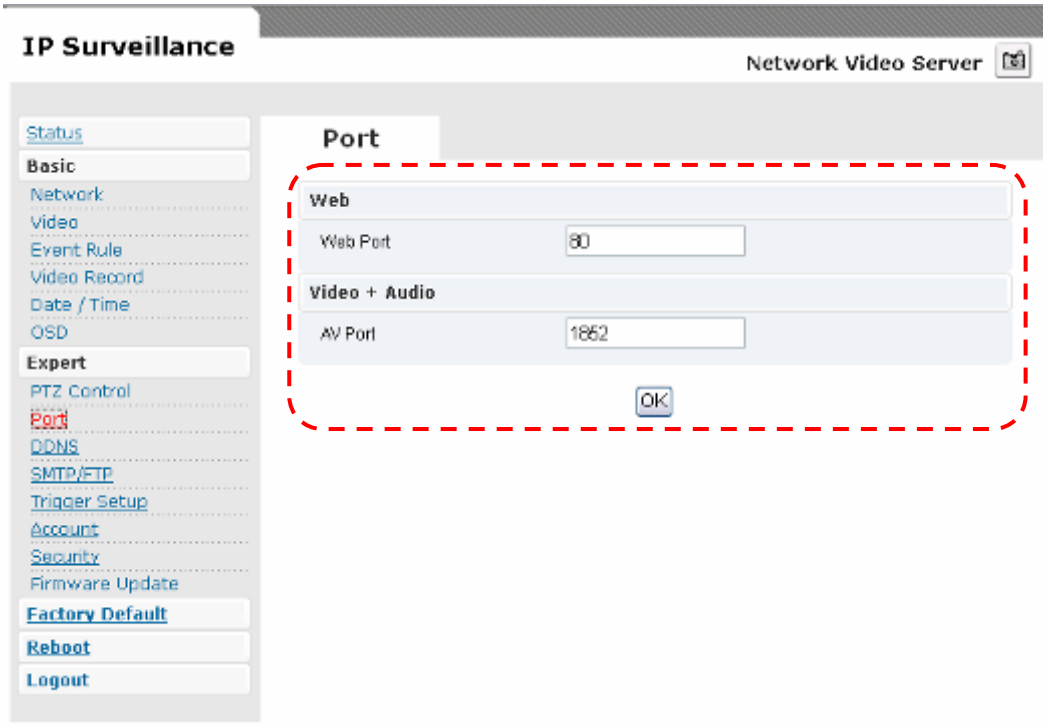
- Give address value - default is zero.

➢ Baud rate / Data bits / Parity / Stop bits

- Depending on the protocol used, the values of baud and related settings are to be assigned accordingly.

PORT

The values of WEB and AV port can be changed as necessary.



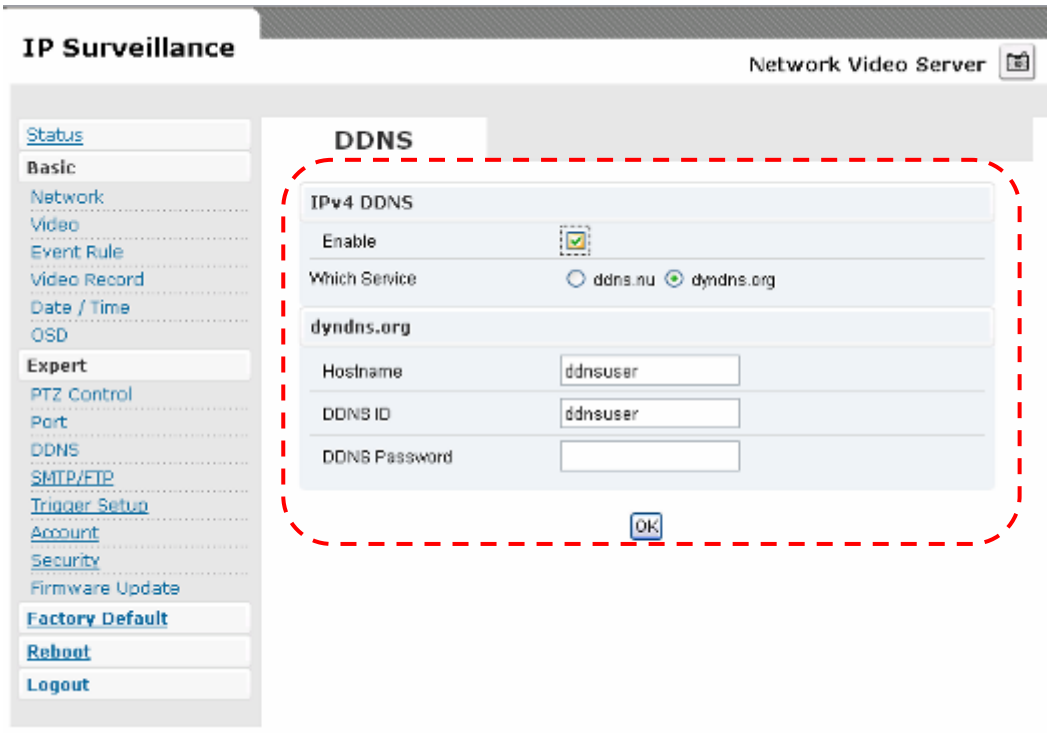
Web

➢ Web Port default is 80

Video + Audio

➢ Default is 1852 for video/audio data transmission.

DDNS

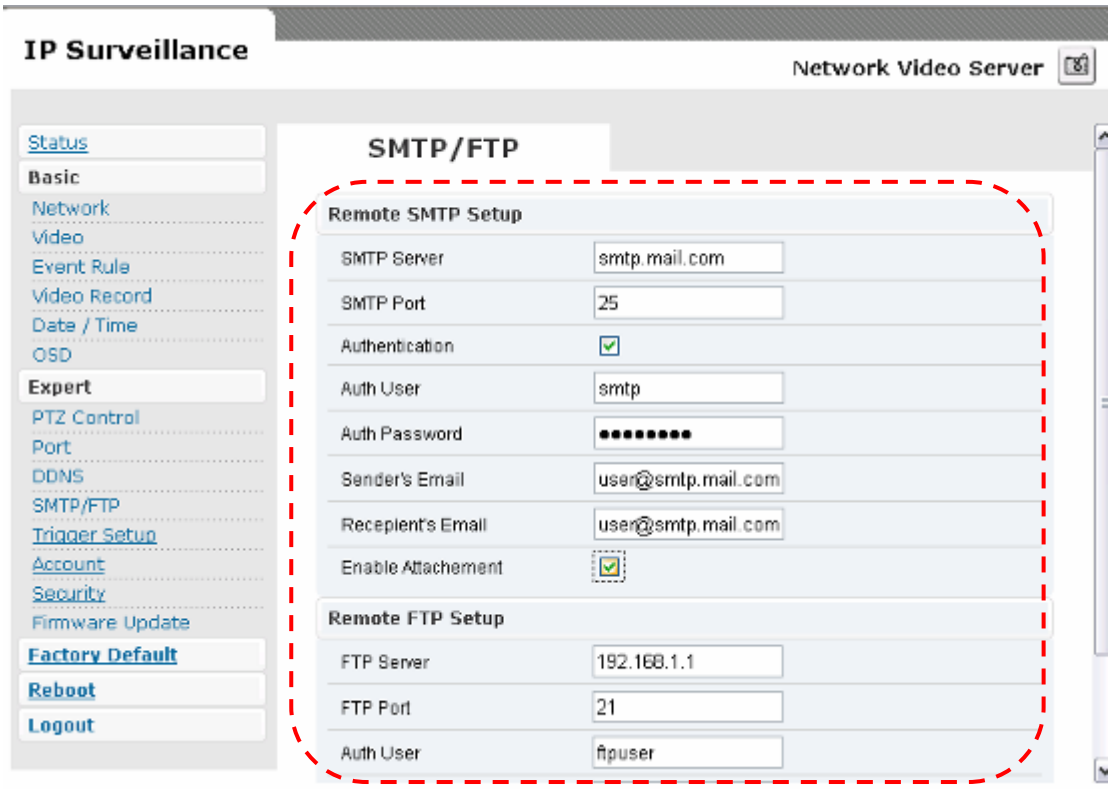


DDNS is the function that maps an IP address to a host name. If video servers are set to dynamic IP address, the host name by DDNS (Dynamic Domain Name Service) must be used instead of the IP address for credibility of network connection.

IPv4 DDNS

- Check "**Enable**" and select a service out of available two.
- Both services are required to register some items on each DDNS service site.
- For use of "**ddns.nu**" register at www.ddns.nu and for **dyndns** find the information at dyndns.org

SMTP/FTP



An e-mail notification & FTP upload service offered by video servers notifies events or uploads snapshots to a remote FTP server.

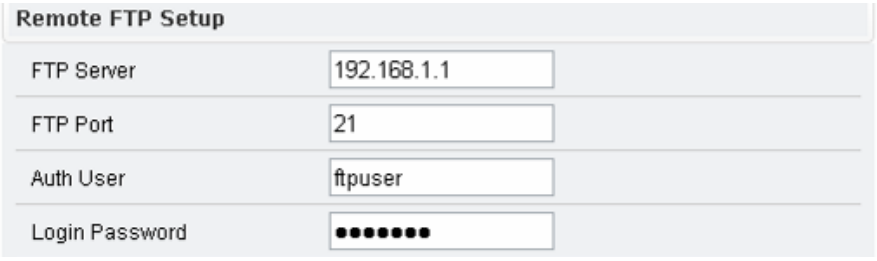
E-MAIL – SMTP SETTINGS

Fill in the details of SMTP server such as port number, user name, password, server name information. If you would wish to send attached snapshots, please check the appropriate check box.

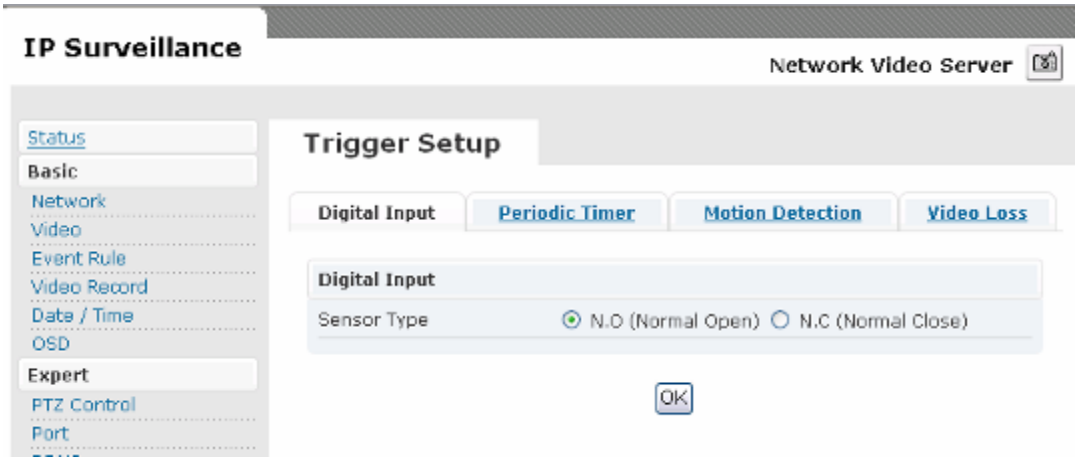
Sometimes Authentication is not always required by SMTP servers. Wherein only the SMTP server name and e-mail address details are enough to be input.

FTP SETTINGS

Fill in the details of remote FTP server, port number and user name, password.



TRIGGER SETUP

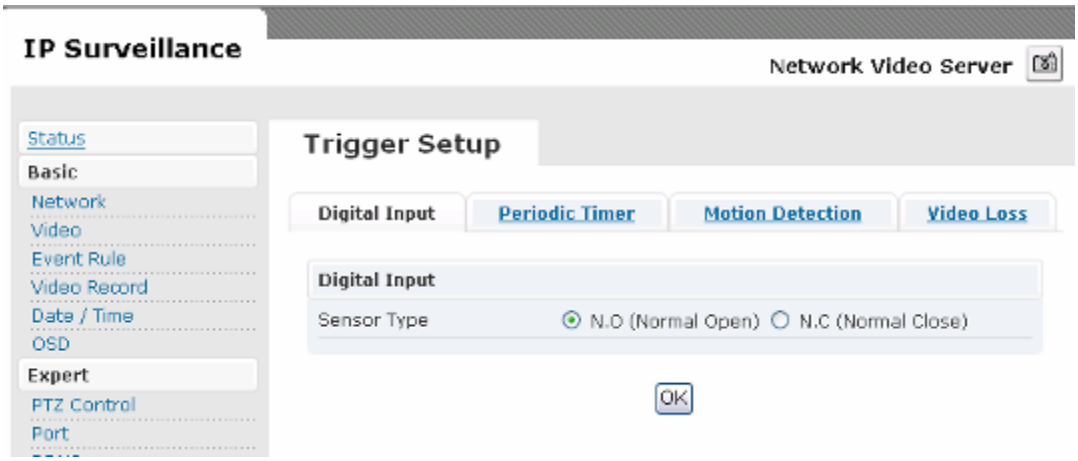


Three different types of EVENTS can be configured.

Digital INPUT

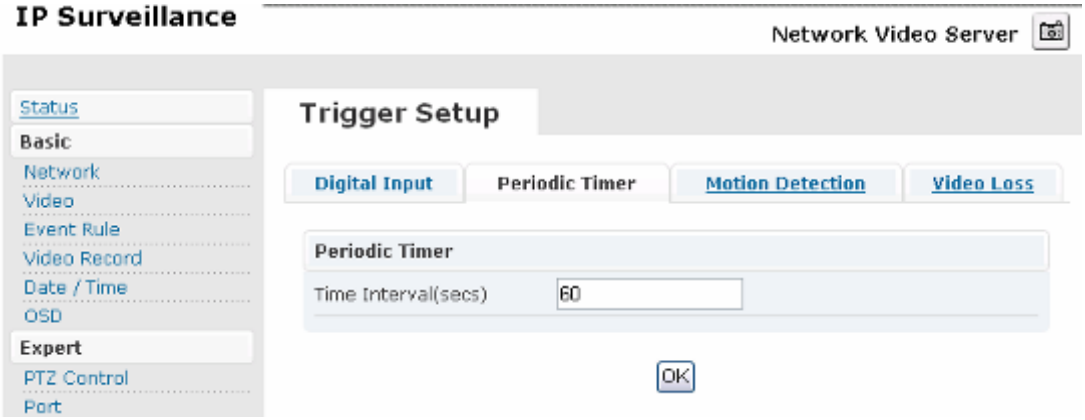
Can be **Normal OPEN (N.O)** or **Normal Close (N.C)**

Choose based on the type of input and press **OK** to save the settings.



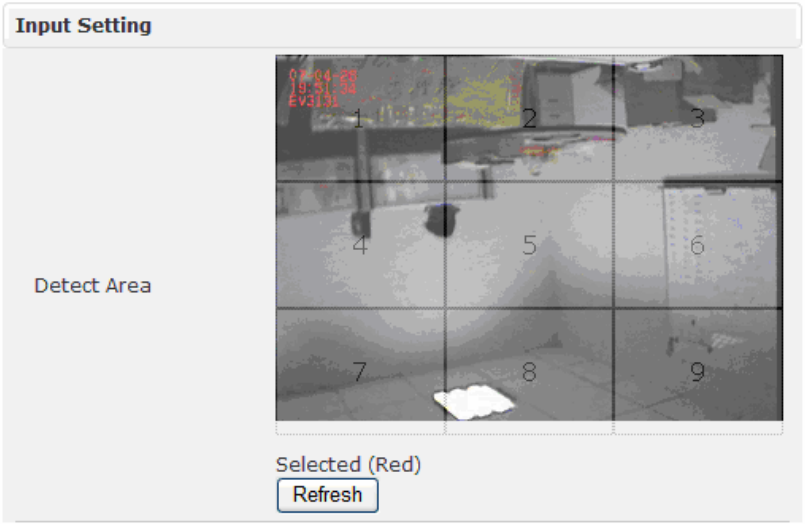
PERIODIC TIMER

Timer interval can be set in terms of seconds. This will trigger an event when the time out is achieved.

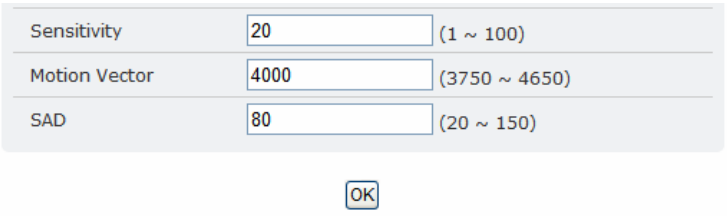


MOTION DETECTION

- Detection Area
  - Total viewing screen area is divided into 9 square blocks and each of them is called area 1, area 2 etc., Click specific areas you want motion detection to be enabled. If a detection area is selected color changes to dark gray.



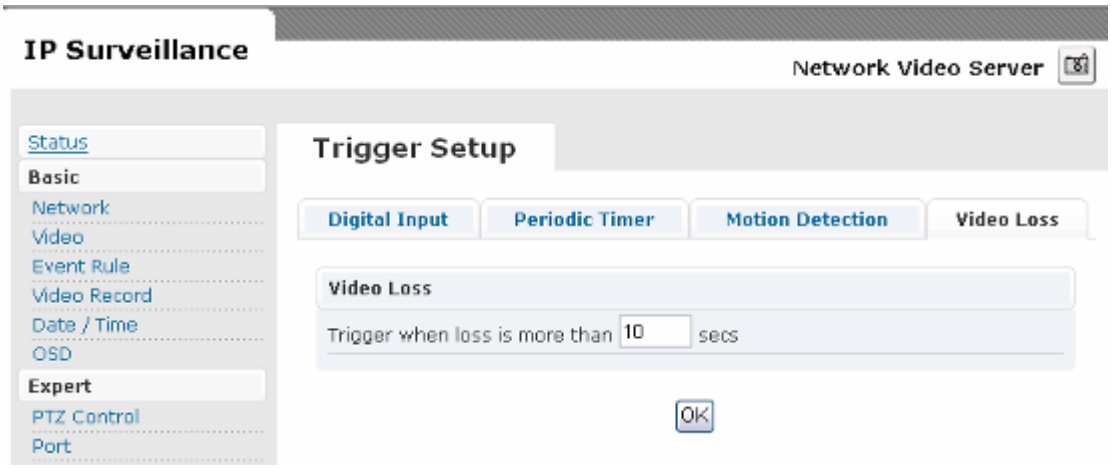
- Sensitivity value
  - Defines sensitivity of the motion detection. The range of the value is 1 to 100.
- Motion Vector value
  - To detect even slightest movement for objects in selected area, please select a lower motion vector value. The range of the value is 3750 to 4650.
- SAD value.
  - To only detect flashing light or any such significant activities on immovable objects, low SAD value should be chosen. In most cases, high SAD level is recommended. The range of the value is 20 to 150.



Motion detection enabled areas look as shown below. A simple click can select any of the boxes on detect area.

Video Loss

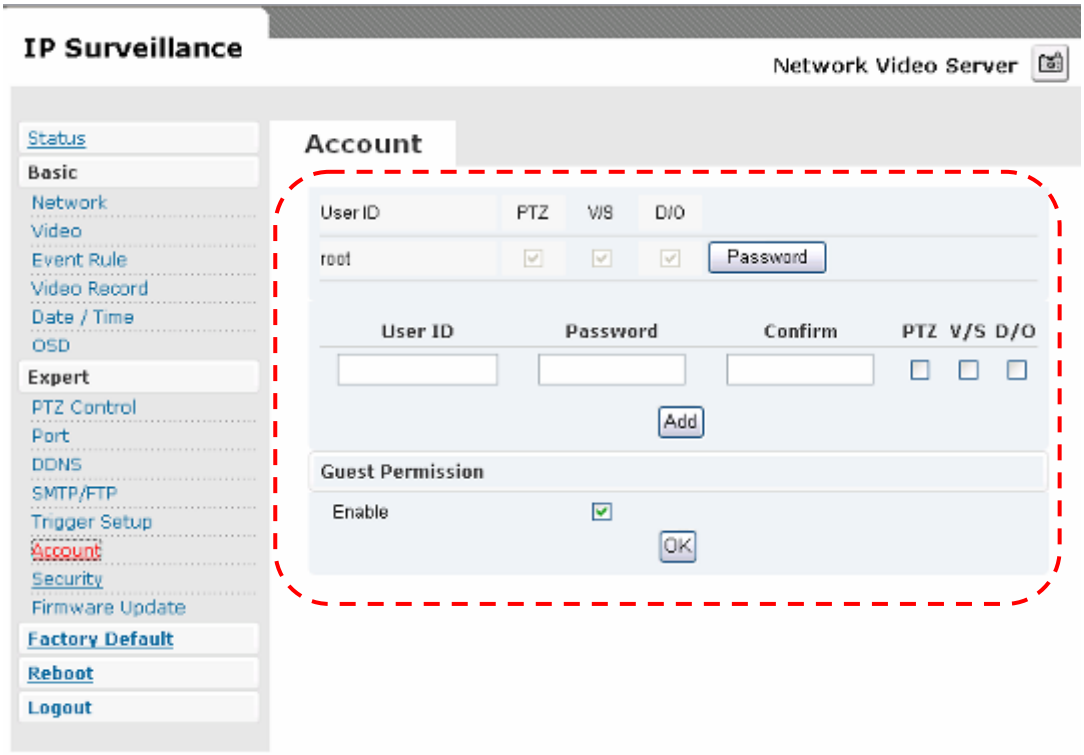
Can config how much time system should trigger an event for video loss



ACCOUNT

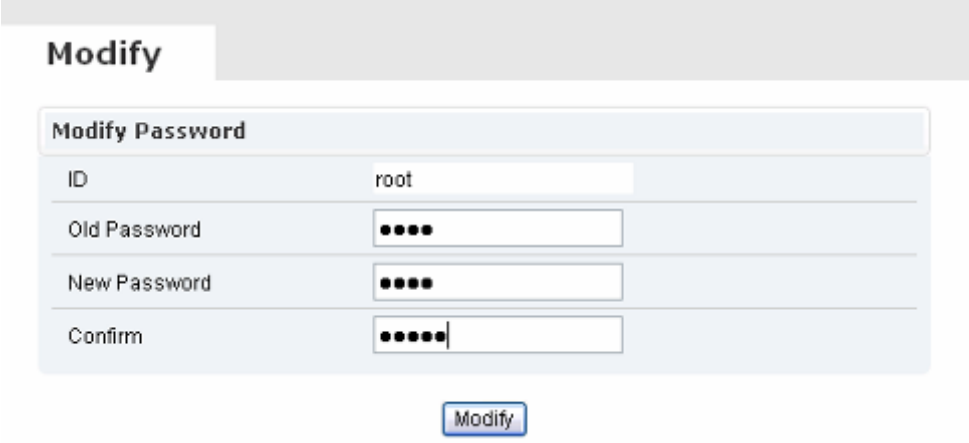
Administrator can create user accounts. Login as an administrator and create user accounts by pressing "**Add**". Each account has PTZ, Video settings and Digital Out privileges. They can be turned on or off anytime by the administrator.

There are limits on user name and password length and will be notified by dialog boxes if the user name/password exceeds or under-runs that limit.



For each account, guest permissions can be turned ON/OFF. Any time, an account's settings can be modified by pressing the "**Modify**" button.

Administrator account can also be modified by the same "Password" button. Changing password needs confirmation.



Account Limitations

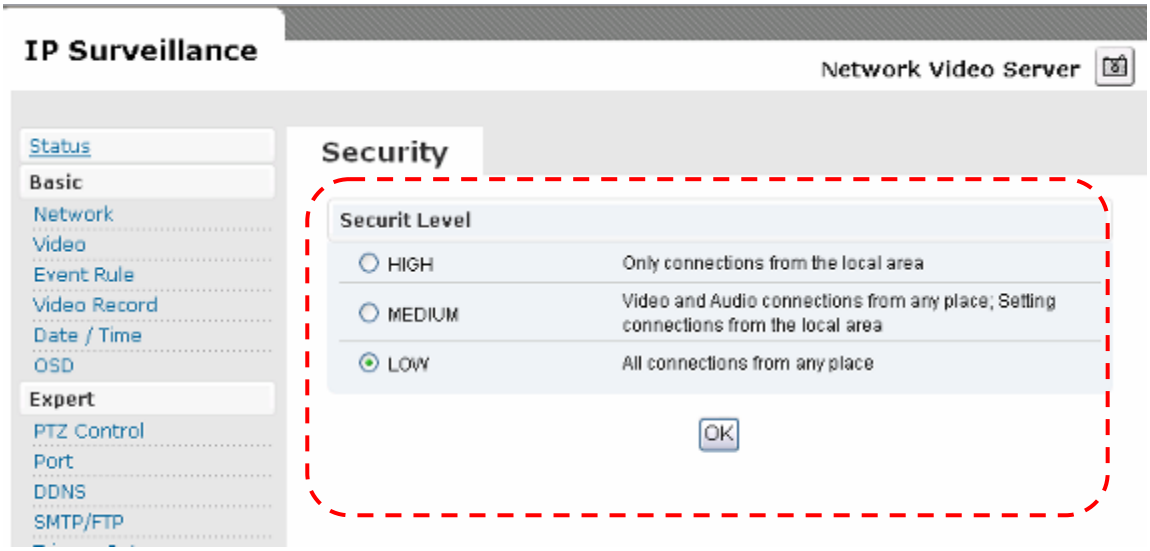
- Administrator can add up to a maximum of 5 users and assign properties for each of them.

Guest Permissions

- Guest account can be turned ON/OFF anytime.

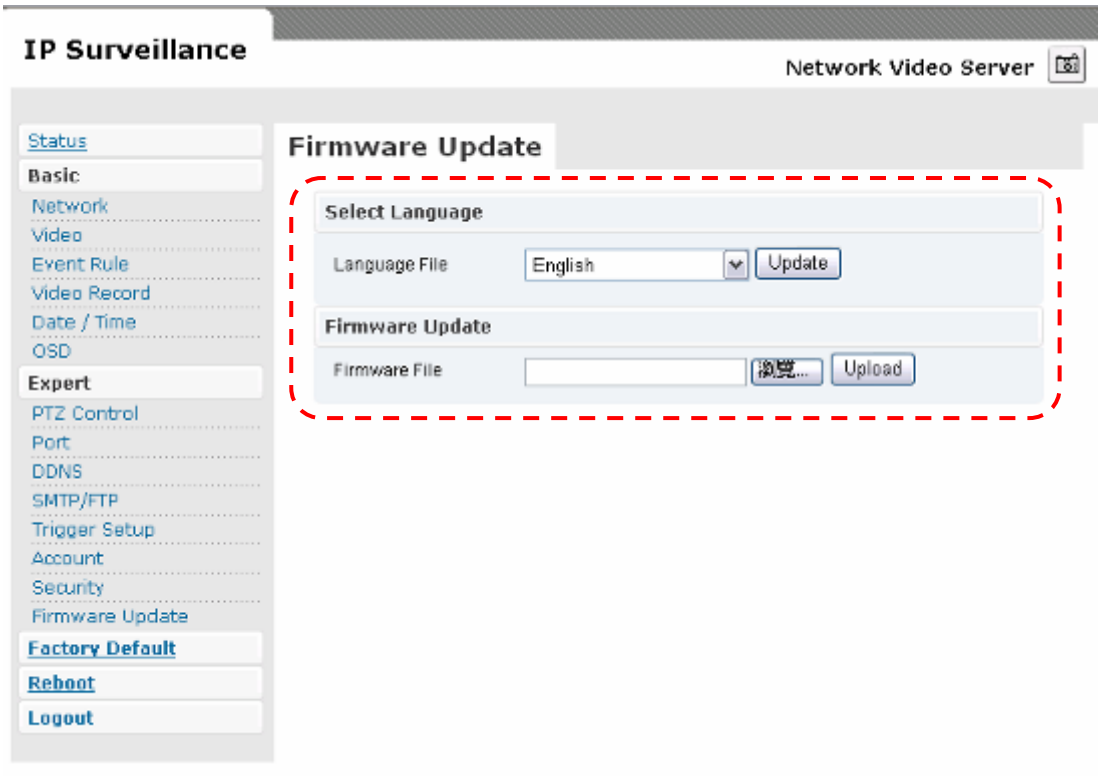
SECURITY

The basic settings are **LOW** by default.



- HIGH
  - ONLY LAN connections are allowed.
- MEDIUM
  - Video and audio connections from any location and settings from LAN are permitted.
- LOW
  - All connections from any location are permitted.

FIRMWARE UPDATE



Language

- Default settings are in English. A choice of Traditional Chinese is available.

Firmware update

- Firmware update binary file can be obtained from Etrovision Technology. Choose that and click **upload**. When uploading is done, reboot is required and will be automatically triggered.

9. FACTORY DEFAULT

After a confirmation dialog box, clicking **OK** button, will load default settings and do a reboot. You will see the reboot countdown timer running. Once done, you will see the login page. Please login with root/pass.

10. REBOOT

If you click **OK** on the dialog box, you will see the reboot countdown timer running. Once done, you will see the login page. Please login with root/pass or other appropriate login information.

11. LOGOUT

To return to the login screen, simply click **logout**. You should see yourself in the login page within seconds.

12. Config Port - FIRST TIME EXPERIENCE

If video server has to be quickly configured or has to be set to factory default settings, Config port is used to achieve that. Config port is a special USB port.

Insert mini USB cable onto Config port and connect other end to PC. When video server is powered on, Config port will not be operational. Once you are done working with Config port, remember to unplug USB cable from Config port.

NOTE

REMOVE Config Port (USB) CABLE WHEN YOU ARE FINISHED WITH QUICK CONFIGURATION.

SUPPORTED OS

PC running the following operating systems can support auto run of **Quick Config** application.

1. Windows XP (all editions) - auto run.

2. Windows 2000 (all editions) – needs to be manually run.
3. Windows 98 (SE) – needs to be manually run

(Generic USB mass storage class driver (Microsoft) will be requested – prepare one in prior if you plan to use Config port based device recovery on Windows 98)

NO SOFTWARE INSTALLATION REQUIRED

There is no installation or setup of any software for Windows XP/2000 platforms.

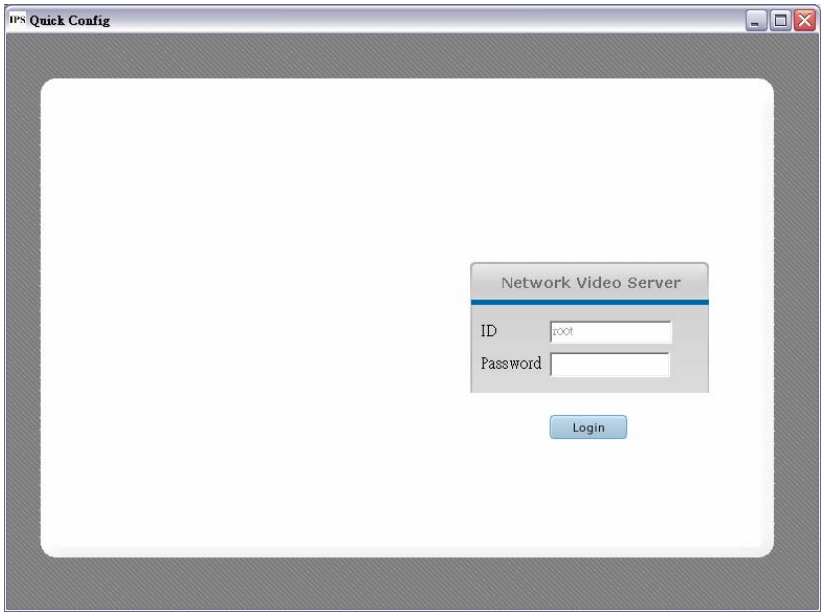
STEPS FOR USING Config Port (***Windows XP PC)***

1. Disconnect **power cable** connected to video servers.
2. Use mini-USB cable and connect appropriate end to Config port and connect other end to PC USB port.

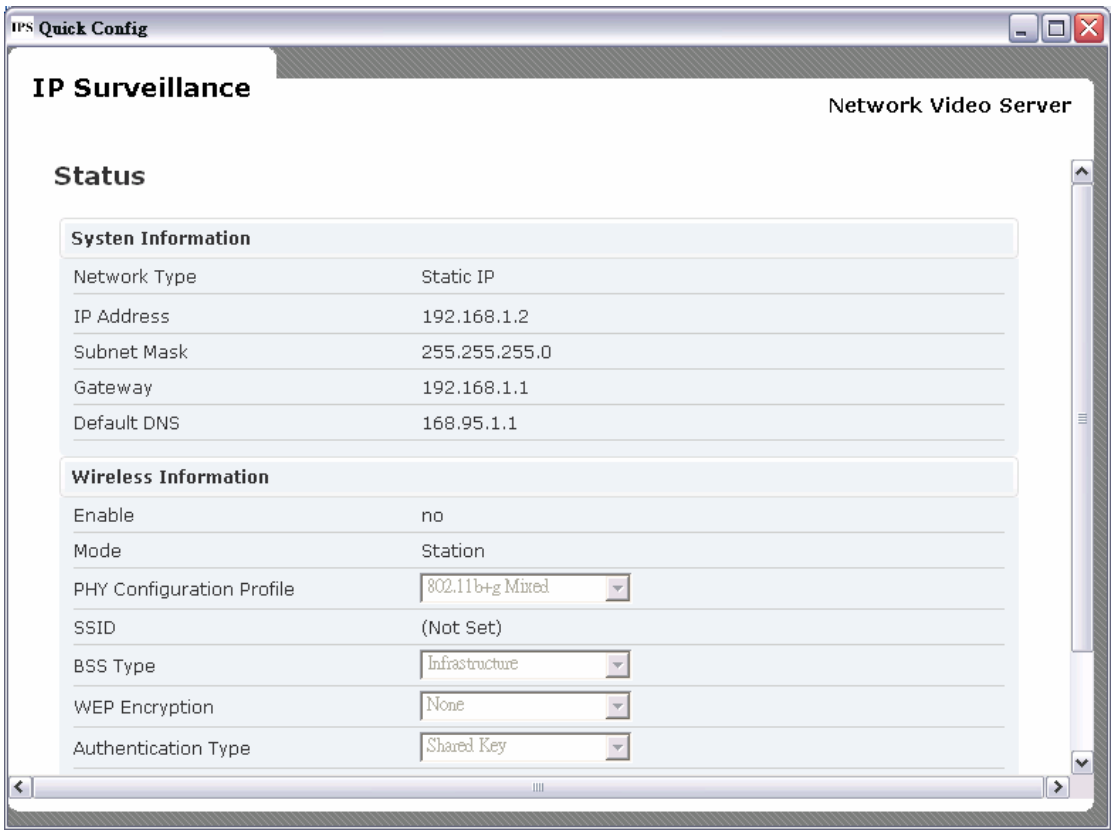
3. After 5 ~ 10 seconds depending on how fast your PC is, you can notice "**Disk drive**" being detected.

4. A POP-UP dialog shows "**Config Wizard**" is ready to run. Press OK.

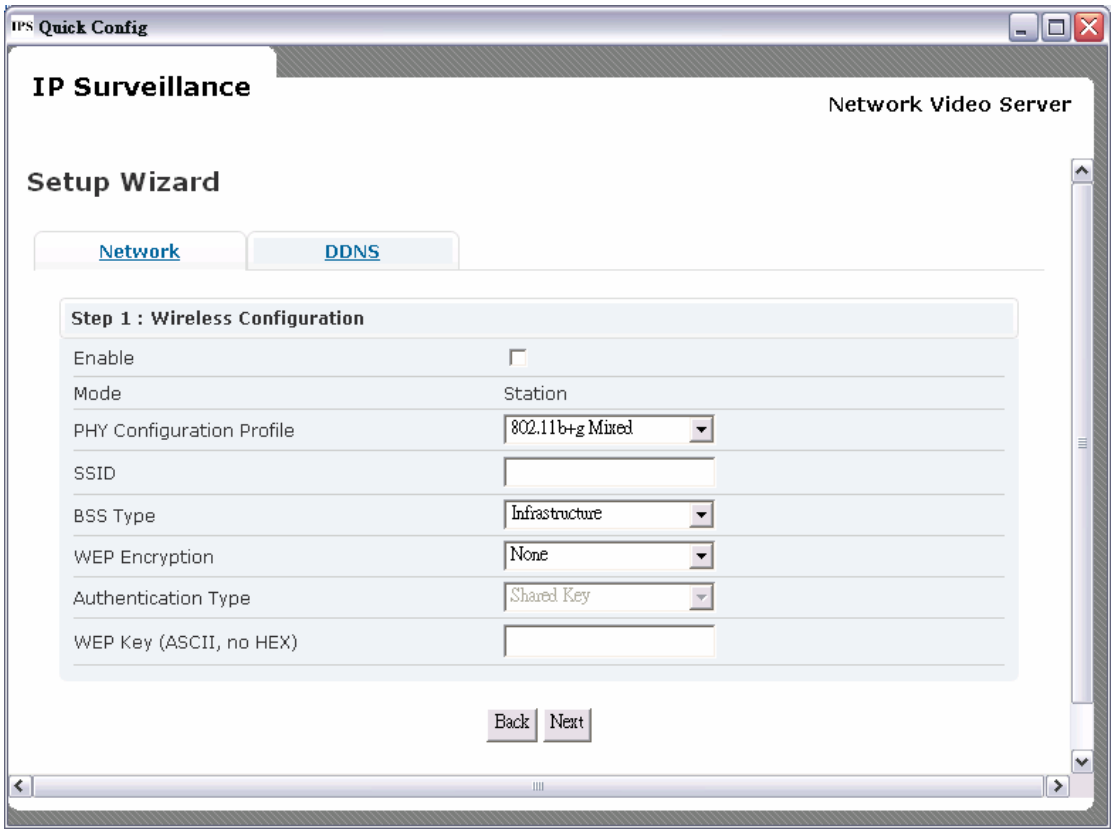
5. Double click Config Wizard. You will see a screen as follows.



You will be asked for password. Earlier, if you have never changed the password for user **root**, please type **pass** as the password. Then click **login** button. If you input wrong password, you will get this dialog box.



You will see the network status of video server .To navigate through Quick Wizard, click it and you will find a window appear as below.



If wireless video server model, you will see WLAN configuration page;

config WLAN setting in this page and click next to go on

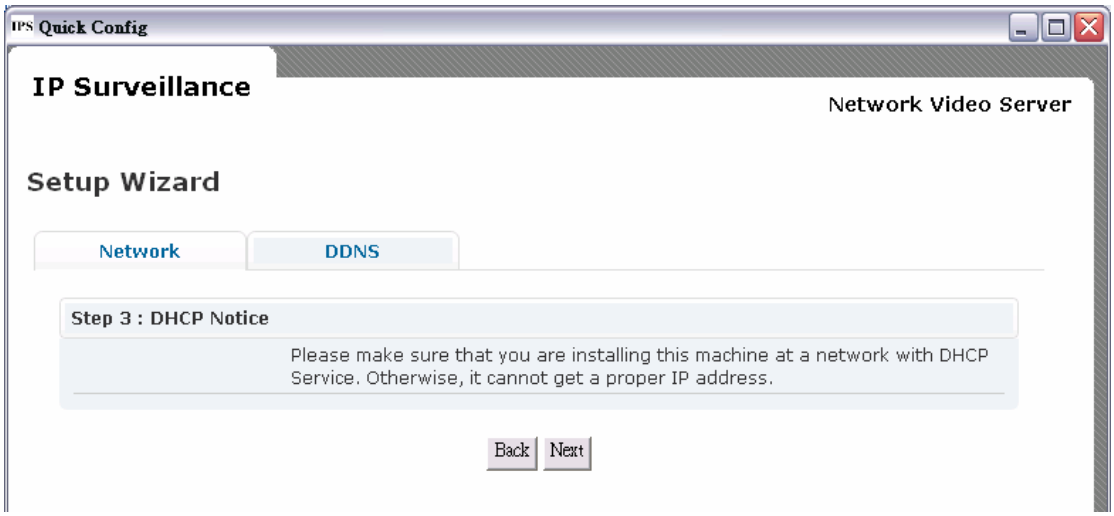
If you would wish to change network settings of either

STATIC / DHCP / PPPoE

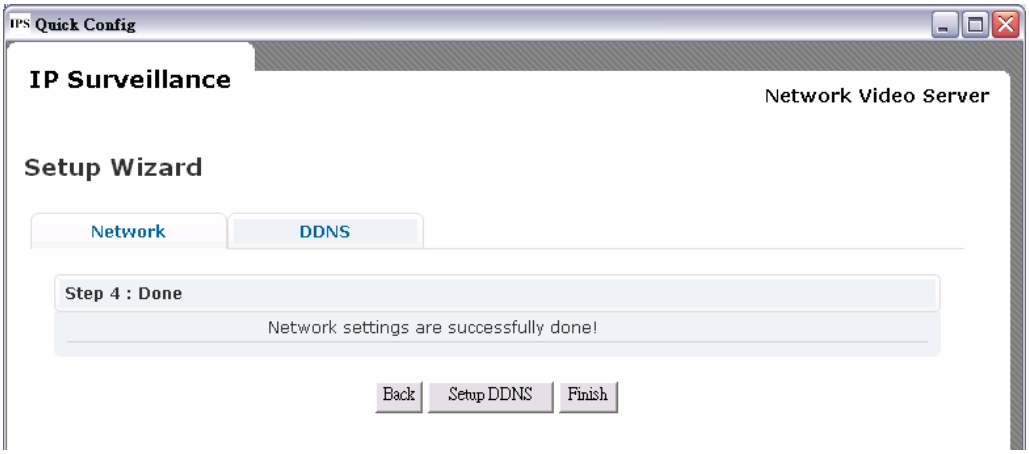
If you would want to setup **DDNS**, please click on the same for detailed configuration.

Return to Network page to setup network further.

Please choose and click **next** for detailed configuration page. For instance, shown below is a screen which has **STATIC** network configuration page. Click next to proceed.


Quick Config
IP Surveillance
Network Video Server
Setup Wizard
Network
DDNS
Step 3 : DHCP Notice
Please make sure that you are installing this machine at a network with DHCP Service. Otherwise, it cannot get a proper IP address.
Back
Next

Clicking next will show that settings are saved. You can click finish if you are done or go back or change other settings. Similarly you can change other settings at ease.



Note:

- *Connect video servers to your network by using a standard Cat-5 cable.*
- *Connect the video output of your camera with video in of video server, using standard 75Ω coaxial cable with BNC type connector.*
- *Connect speaker and active microphone to Audio Out/In.*

WHAT IF **QUICKCONFIG** DOES NOT AUTORUN?

In some PC, after connecting USB cable with Config port, there might not be auto run of Quick Config application. In that case, just open disk drive which looks like shown on screenshot below. It should have volume name starting with Video Server.